

CLAIMS

- [1] A lens sheet for a screen comprising one or at least two layers, adapted for use in combination with other lens sheet,
the layer in contact with said other lens being formed of a thermoplastic resin, said thermoplastic resin having a universal hardness of 31.0 to 42.0 N/mm².
- [2] The lens sheet for screen according to claim 1, wherein said thermoplastic resin has a compression modulus of elasticity of 1600 to 2500 MPa and a maximum deformation quantity of 2.0 to 2.7 μm as measured by a creep test.
- [3] The lens sheet for a screen according to claim 1 or 2, wherein said thermoplastic resin has a loss tangent at -20°C of not less than 0.04 and an elastic work ratio of not less than 70%.
- [4] The lens sheet for a screen according to any one of claims 1 to 3, wherein, when the lens sheet for a screen has a single-layer structure, said thermoplastic resin has a water absorption of not more than 0.2%.
- [5] The lens sheet for a screen according to any one of claims 1 to 4, wherein, when the lens sheet for a screen comprises two or more layers, a relationship represented by $\alpha_1 - \alpha_2 > 0.1\%$ is satisfied wherein α_1 represents the water absorption of the thermoplastic resin constituting the layer in contact with said other lens, %; and α_2 represents the water absorption of the resin constituting the layer(s) other than the layer in contact with said other lens, %.
- [6] The lens sheet for a screen according to any one of claims 1 to 5, wherein said thermoplastic resin composition comprises a copolymer of methyl methacrylate, styrene and butadiene rubber, and the content of said methyl methacrylate and styrene is not less than 20% by weight based on said copolymer.
- [7] Use of a lens sheet for a screen according to any one of claims 1 to 6 as a lenticular lens.

- [8] A projection screen comprising a lenticular lens according to claim 7 and a Fresnel lens.
- [9] A thermoplastic resin for use in a lens sheet for a screen according to any one of claims 1 to 8, said thermoplastic resin having a universal hardness of 31.0 to 43.0 N/mm².
- [10] A thermoplastic resin according to claim 9, which has a compression modulus of elasticity of 1600 to 2500 MPa and a maximum deformation quantity of 1.95 to 2.7 μm as measured by a creep test.
- [11] The thermoplastic resin according to claim 9 or 10, wherein said thermoplastic resin has a loss tangent at -20°C of not less than 0.04 and an elastic work ratio of not less than 70%.